

CU
5/21/07

That is, among the inventions, the invention of claim ^{above} ~~43~~ comprises a random number generating unit for outputting "1" and "0" as random number data, a first counter for counting a given number of times, a second counter for counting the number of times of occurrence of the random number data outputted from the random number generating unit to produce count data, a register for holding the count data of the second counter in every cycle counted by the first counter, and an output circuit for outputting the count data held in this register as verification data.

Besides, among the inventions, the invention of claim 43 comprises, instead of the output circuit, a comparator for comparing previously set upper limit comparison data and lower limit comparison data with the data held in the register to output a verification signal.

Besides, among the inventions, the invention of claim 44 comprises a random number generating unit for outputting "1" and "0" as random number data, a data holding unit for holding previous random number data outputted from this random number generating unit, a comparator for comparing present random number data outputted from the random number generating unit with the previous random number data held in the data holding unit, outputting a count up signal when both are identical to each other, and outputting a count clear signal when both are different from each other, a counter for

for a user to perform a statistical processing, and therefore
it is possible to provide the multi-bit random number
generator which can easily verify the uniformity of
occurrence of random number data and can raise the
5 reliability.

Further, according to the invention ^{above} ~~of claim 51~~ among

the inventions, the uniformity of occurrence of random number
data can be verified by itself, and it becomes unnecessary
for a user to perform a statistical processing, and therefore

10 it is possible to provide the probability generator which can
easily verify the uniformity of occurrence of random number
data and can raise the reliability.

en
5/24/07